



PCT

## RAW SEQUENCE LISTING

DATE: 02/15/2006

PATENT APPLICATION: US/10/529,887

TIME: 10:01:48

Input Set : A:\503250 Sequence Listing.txt

Output Set: N:\CRF4\02152006\J529887.raw

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3 <110> APPLICANT: Commonwealth Scientific and Industrial Research Organisation
4     Walter and Eliza Hall Institute of Medical Research
5     Ludwig Institute for Cancer Research
7 <120> TITLE OF INVENTION: Crystal structure of ErbB2 and uses thereof
9 <130> FILE REFERENCE: 501742/JEP
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/529,887
C--> 11 <141> CURRENT FILING DATE: 2005-04-01
      11 <150> PRIOR APPLICATION NUMBER: Australian Patent Provisional Application No
2002951853
      12 <151> PRIOR FILING DATE: 2002-10-04
      14 <160> NUMBER OF SEQ ID NOS: 4
      16 <170> SOFTWARE: PatentIn version 3.1
      18 <210> SEQ ID NO: 1
      19 <211> LENGTH: 509
      20 <212> TYPE: PRT
      21 <213> ORGANISM: Homo sapiens
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29 Ser Pro Glu Thr His Leu Asp Met Leu Arg His Leu Tyr Gln Gly Cys
30           20           25           30
33 Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr Leu Pro Thr Asn Ala
34           35           40           45
37 Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val Gln Gly Tyr Val Leu
38           50           55           60
41 Ile Ala His Asn Gln Val Arg Gln Val Pro Leu Gln Arg Leu Arg Ile
42 65           70           75           80
45 Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu
46           85           90           95
49 Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro Val Thr Gly Ala Ser
50           100          105          110
53 Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser Leu Thr Glu Ile Leu
54           115          120          125
57 Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln Leu Cys Tyr Gln Asp
58           130          135          140
61 Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala Leu
62 145          150          155          160
65 Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys Ser Pro
66           165          170          175
69 Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu Asp Cys Gln
70           180          185          190
73 Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys Ala Arg Cys Lys Gly
74           195          200          205
77 Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys Ala Ala Gly Cys Thr

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78      210      215      220
81 Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu His Phe Asn His Ser
82 225      230      235      240
85 Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val Thr Tyr Asn Thr Asp
86      245      250      255
89 Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg Tyr Thr Phe Gly Ala
90      260      265      270
93 Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu Ser Thr Asp Val Gly
94      275      280      285
97 Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln Glu Val Thr Ala Glu
98      290      295      300
101 Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg Val
102 305      310      315      320
105 Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu Val Arg Ala Val Thr
106      325      330      335
109 Ser Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe Gly Ser
110      340      345      350
113 Leu Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser Asn Thr
114      355      360      365
117 Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe Glu Thr Leu Glu Glu
118      370      375      380
121 Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro Asp
122 385      390      395      400
125 Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu His
126      405      410      415
129 Asn Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile Ser Trp Leu
130      420      425      430
133 Gly Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly Leu Ala Leu Ile His
134      435      440      445
137 His Asn Thr His Leu Cys Phe Val His Thr Val Pro Trp Asp Gln Leu
138      450      455      460
141 Phe Arg Asn Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro Glu
142 465      470      475      480
145 Asp Glu Cys Val Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala Arg
146      485      490      495
149 Gly His Cys Trp Gly Pro Gly Pro Thr Gln Cys Val Asn
150      500      505
153 <210> SEQ ID NO: 2
154 <211> LENGTH: 501
155 <212> TYPE: PRT
156 <213> ORGANISM: Homo sapiens
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164 Leu Gly Thr Phe Glu Asp His Phe Leu Ser Leu Gln Arg Met Phe Asn
165      20      25      30
168 Asn Cys Glu Val Val Leu Gly Asn Leu Glu Ile Thr Tyr Val Gln Arg
169      35      40      45
172 Asn Tyr Asp Leu Ser Phe Leu Lys Thr Ile Gln Glu Val Ala Gly Tyr

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173      50                      55                      60
176 Val Leu Ile Ala Leu Asn Thr Val Glu Arg Ile Pro Leu Glu Asn Leu
177 65                      70                      75                      80
180 Gln Ile Ile Arg Gly Asn Met Tyr Tyr Glu Asn Ser Tyr Ala Leu Ala
181                      85                      90                      95
184 Val Leu Ser Asn Tyr Asp Ala Asn Lys Thr Gly Leu Lys Glu Leu Pro
185                      100                      105                      110
188 Met Arg Asn Leu Gln Glu Ile Leu His Gly Ala Val Arg Phe Ser Asn
189                      115                      120                      125
192 Asn Pro Ala Leu Cys Asn Val Glu Ser Ile Gln Trp Arg Asp Ile Val
193                      130                      135                      140
196 Ser Ser Asp Phe Leu Ser Asn Met Ser Met Asp Phe Gln Asn His Leu
197 145                      150                      155                      160
200 Gly Ser Cys Gln Lys Cys Asp Pro Ser Cys Pro Asn Gly Ser Cys Trp
201                      165                      170                      175
204 Gly Ala Gly Glu Glu Asn Cys Gln Lys Leu Thr Lys Ile Ile Cys Ala
205                      180                      185                      190
208 Gln Gln Cys Ser Gly Arg Cys Arg Gly Lys Ser Pro Ser Asp Cys Cys
209                      195                      200                      205
213 His Asn Gln Cys Ala Ala Gly Cys Thr Gly Pro Arg Glu Ser Asp Cys
214                      210                      215                      220
217 Leu Val Cys Arg Lys Phe Arg Asp Glu Ala Thr Cys Lys Asp Thr Cys
218 225                      230                      235                      240
221 Pro Pro Leu Met Leu Tyr Asn Pro Thr Thr Tyr Gln Met Asp Val Asn
222                      245                      250                      255
225 Pro Glu Gly Lys Tyr Ser Phe Gly Ala Thr Cys Val Lys Lys Cys Pro
226                      260                      265                      270
229 Arg Asn Tyr Val Val Thr Asp His Gly Ser Cys Val Arg Ala Cys Gly
230                      275                      280                      285
233 Ala Asp Ser Tyr Glu Met Glu Glu Asp Gly Val Arg Lys Cys Lys Lys
234                      290                      295                      300
237 Cys Glu Gly Pro Cys Arg Lys Val Cys Asn Gly Ile Gly Ile Gly Glu
238 305                      310                      315                      320
241 Phe Lys Asp Ser Leu Ser Ile Asn Ala Thr Asn Ile Lys His Phe Lys
242                      325                      330                      335
245 Asn Cys Thr Ser Ile Ser Gly Asp Leu His Ile Leu Pro Val Ala Phe
246                      340                      345                      350
249 Arg Gly Asp Ser Phe Thr His Thr Pro Pro Leu Asp Pro Gln Glu Leu
250                      355                      360                      365
253 Asp Ile Leu Lys Thr Val Lys Glu Ile Thr Gly Phe Leu Leu Ile Gln
254                      370                      375                      380
257 Ala Trp Pro Glu Asn Arg Thr Asp Leu His Ala Phe Glu Asn Leu Glu
258 385                      390                      395                      400
261 Ile Ile Arg Gly Arg Thr Lys Gln His Gly Gln Phe Ser Leu Ala Val
262                      405                      410                      415
265 Val Ser Leu Asn Ile Thr Ser Leu Gly Leu Arg Ser Leu Lys Glu Ile
266                      420                      425                      430
269 Ser Asp Gly Asp Val Ile Ile Ser Gly Asn Lys Asn Leu Cys Tyr Ala
270                      435                      440                      445

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273 Asn Thr Ile Asn Trp Lys Lys Leu Phe Gly Thr Ser Gly Gln Lys Thr
274      450                      455                      460
277 Lys Ile Ile Ser Asn Arg Gly Glu Asn Ser Cys Lys Ala Thr Gly Gln
278 465                      470                      475                      480
281 Val Cys His Ala Leu Cys Ser Pro Glu Gly Cys Trp Gly Pro Glu Pro
282                      485                      490                      495
285 Arg Asp Cys Val Ser
286      500
289 <210> SEQ ID NO: 3
290 <211> LENGTH: 500
291 <212> TYPE: PRT
292 <213> ORGANISM: Homo sapiens
294 <400> SEQUENCE: 3
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297 1      5      10      15
300 Leu Ser Val Thr Gly Asp Ala Glu Asn Gln Tyr Gln Thr Leu Tyr Lys
301      20      25      30
304 Leu Tyr Glu Arg Cys Glu Val Val Met Gly Asn Leu Glu Ile Val Leu
305      35      40      45
308 Thr Gly His Asn Ala Asp Leu Ser Phe Leu Gln Trp Ile Arg Glu Val
309      50      55      60
312 Thr Gly Tyr Val Leu Val Ala Met Asn Glu Phe Ser Thr Leu Pro Leu
313 65      70      75      80
316 Pro Asn Leu Arg Val Val Arg Gly Thr Gln Val Tyr Asp Gly Lys Phe
317      85      90      95
320 Ala Ile Phe Val Met Leu Asn Tyr Asn Thr Asn Ser Ser His Ala Leu
321      100     105     110
324 Arg Gln Leu Arg Leu Thr Gln Leu Thr Glu Ile Leu Ser Gly Gly Val
325      115     120     125
328 Tyr Ile Glu Lys Asn Asp Lys Leu Cys His Met Asp Thr Ile Asp Trp
329      130     135     140
332 Arg Asp Ile Val Arg Asp Arg Asp Ala Glu Ile Val Val Lys Asp Asn
333 145      150     155     160
336 Gly Arg Ser Cys Pro Pro Cys His Glu Val Cys Lys Gly Arg Cys Trp
337      165     170     175
340 Gly Pro Gly Ser Glu Asp Cys Gln Thr Leu Thr Lys Thr Ile Cys Ala
341      180     185     190
344 Pro Gln Cys Asn Gly His Cys Phe Gly Pro Asn Pro Asn Gln Cys Cys
345      195     200     205
348 His Asp Glu Cys Ala Gly Gly Cys Ser Gly Pro Gln Asp Thr Asp Cys
349      210     215     220
352 Phe Ala Cys Arg His Phe Asn Asp Ser Gly Ala Cys Val Pro Arg Cys
353 225      230     235     240
356 Pro Gln Pro Leu Val Tyr Asn Lys Leu Thr Phe Gln Leu Glu Pro Asn
357      245     250     255
360 Pro His Thr Lys Tyr Gln Tyr Gly Gly Val Cys Val Ala Ser Cys Pro
361      260     265     270
364 His Asn Phe Val Val Asp Gln Thr Ser Cys Val Arg Ala Cys Pro Pro
365      275     280     285

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368 Asp Lys Met Glu Val Asp Lys Asn Gly Leu Lys Met Cys Glu Pro Cys
369      290      295      300
372 Gly Gly Leu Cys Pro Lys Ala Cys Glu Gly Thr Gly Ser Gly Ser Arg
373 305      310      315      320
376 Phe Gln Thr Val Asp Ser Ser Asn Ile Asp Gly Phe Val Asn Cys Thr
377      325      330      335
380 Lys Ile Leu Gly Asn Leu Asp Phe Leu Ile Thr Gly Leu Asn Gly Asp
381      340      345      350
384 Pro Trp His Lys Ile Pro Ala Leu Asp Pro Glu Lys Leu Asn Val Phe
385      355      360      365
388 Arg Thr Val Arg Glu Ile Thr Gly Tyr Leu Asn Ile Gln Ser Trp Pro
389      370      375      380
392 Pro His Met His Asn Phe Ser Val Phe Ser Asn Leu Thr Thr Ile Gly
393 385      390      395      400
396 Gly Arg Ser Leu Tyr Asn Arg Gly Phe Ser Leu Leu Ile Met Lys Asn
397      405      410      415
400 Leu Asn Val Thr Ser Leu Gly Phe Arg Ser Leu Lys Glu Ile Ser Ala
401      420      425      430
404 Gly Arg Ile Tyr Ile Ser Ala Asn Arg Gln Leu Cys Tyr His His Ser
405      435      440      445
408 Leu Asn Trp Thr Lys Val Leu Arg Gly Pro Thr Glu Glu Arg Leu Asp
409      450      455      460
412 Ile Lys His Asn Arg Pro Arg Arg Asp Cys Val Ala Glu Gly Lys Val
413 465      470      475      480
416 Cys Asp Pro Leu Cys Ser Ser Gly Gly Cys Trp Gly Pro Gly Pro Gly
417      485      490      495
420 Gln Cys Leu Ser
421      500
424 <210> SEQ ID NO: 4
425 <211> LENGTH: 502
426 <212> TYPE: PRT
427 <213> ORGANISM: Homo sapiens
429 <400> SEQUENCE: 4
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435 Ser Ser Leu Ser Asp Leu Glu Gln Gln Tyr Arg Ala Leu Arg Lys Tyr
436      20      25      30
439 Tyr Glu Asn Cys Glu Val Val Met Gly Asn Leu Glu Ile Thr Ser Ile
440      35      40      45
443 Glu His Asn Arg Asp Leu Ser Phe Leu Arg Ser Val Arg Glu Val Thr
444      50      55      60
447 Gly Tyr Val Leu Val Ala Leu Asn Gln Phe Arg Tyr Leu Pro Leu Glu
448 65      70      75      80
451 Asn Leu Arg Ile Ile Arg Gly Thr Lys Leu Tyr Glu Asp Arg Tyr Ala
452      85      90      95
455 Leu Ala Ile Phe Leu Asn Tyr Arg Lys Asp Gly Asn Phe Gly Leu Gln
456      100      105      110
459 Glu Leu Gly Leu Lys Asn Leu Thr Glu Ile Leu Asn Gly Gly Val Tyr
460      115      120      125

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VERIFICATION SUMMARY

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TIME: 10:01:49

Input Set : A:\503250 Sequence Listing.txt

Output Set: N:\CRF4\02152006\J529887.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date